CW&HW#57: Mixed Review

Geometry

Due: Monday, December 14th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

FAILURE TO WRITE IN COMPELTE SENTENCES OR SHOW ALL WORK WILL RESULT IN LASALLE.

|  |  |
| --- | --- |
| 1. What is a dilation? | 2. Describe similar figures. |
| 3. How are dilations related to similar figures? | 4. Explain rigid motion. Is a dilation rigid motion? If not provide an example. |
| 5. Dilate the figure below using a scale factor of 2. [Use the origin as the center of dilation.] | 6. Dilate the figure below using a scale factor of 1/3. [Use the origin as the center of dilation.] |
| 7. The length of a triangle is two times the width. If the area is 12in.2, what is the length of the triangle? | 8. The length of a rectangle is 3 less the twice the width, w. What is the perimeter of the rectangle in terms of w. |

|  |  |
| --- | --- |
| 9. Rotate the figure counter clockwise about the origin. | 10. Reflect the figure across the x- axis. |
| 11. Determine if the two triangles are congruent. If so, state how you know.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.05.10 PM.png | 12. Determine if the two triangles are congruent. If so, state how you know.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.05.15 PM.png |
| 13. Determine if the two triangles are congruent. If so, state how you know.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.05.22 PM.png | 14. Determine if the two triangles are congruent. If so, state how you know.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.05.28 PM.png |
| 15. Solve for x.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.09.36 PM.png | 16. Solve for x.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.09.41 PM.png |
| 17.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.10.40 PM.png | 18.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-12-06 at 10.10.46 PM.png |
| 19. The area of our class room is 400ft2. If each desk is 2ft2 and there are 36 desks in the room how much area is left over. | 20. The circumference of a circle is 16 π- what is the area of the circle? |